

The chromatogram displays two data series against Volume (ml) on the x-axis (0 to 232). The left y-axis represents Absorbance at 546 nm (0.0 to 2.0), and the right y-axis represents Eluent B (%) (0 to 50). A solid line indicates a linear gradient of Eluent B from 0% at 0 ml to 25% at 232 ml. A dashed line shows absorbance peaks: a small peak at ~10 ml, a peak labeled 'a' at ~120 ml (absorbance ~0.75), a peak labeled 'b' at ~150 ml (absorbance ~0.9), and a small peak at 232 ml (absorbance ~0.25).

Volume (ml)	Eluent B (%)	Absorbance at 546 nm
0	0	0.00
10	2.5	0.05
120	16.7	0.75 (peak a)
150	20.8	0.90 (peak b)
232	25.0	0.25

FIG. 2A

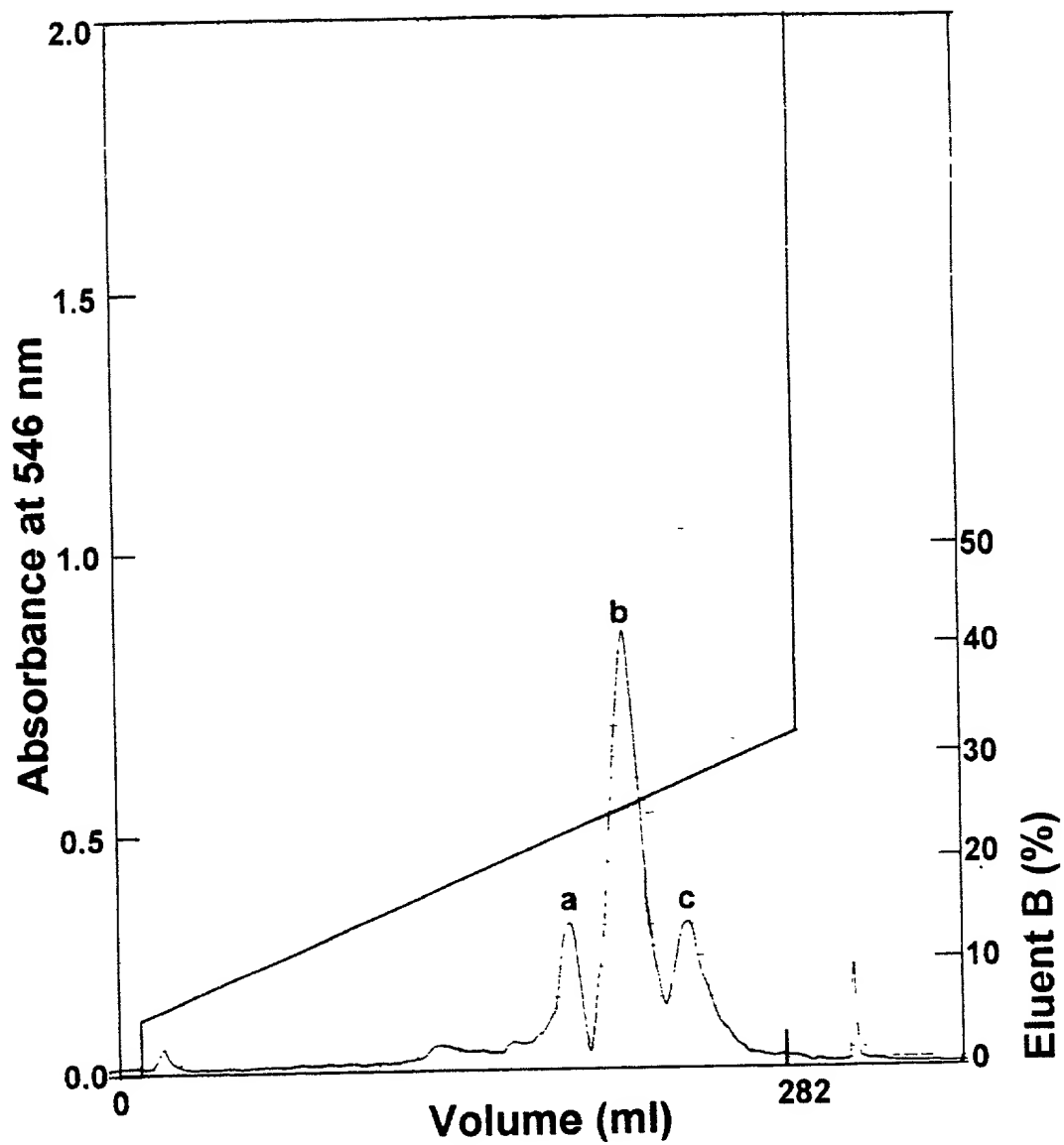


FIG. 2B

106077-999850

FIG. 3A

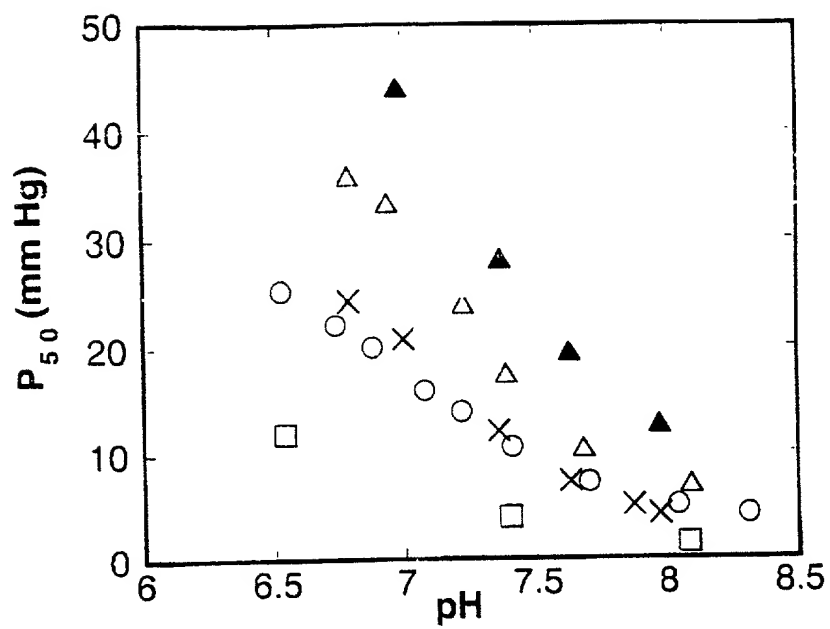
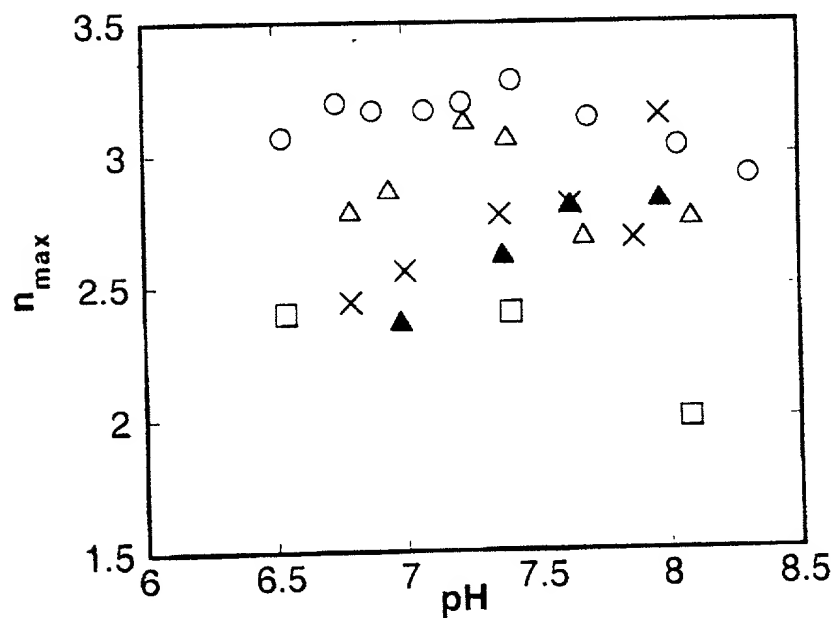


FIG. 3B



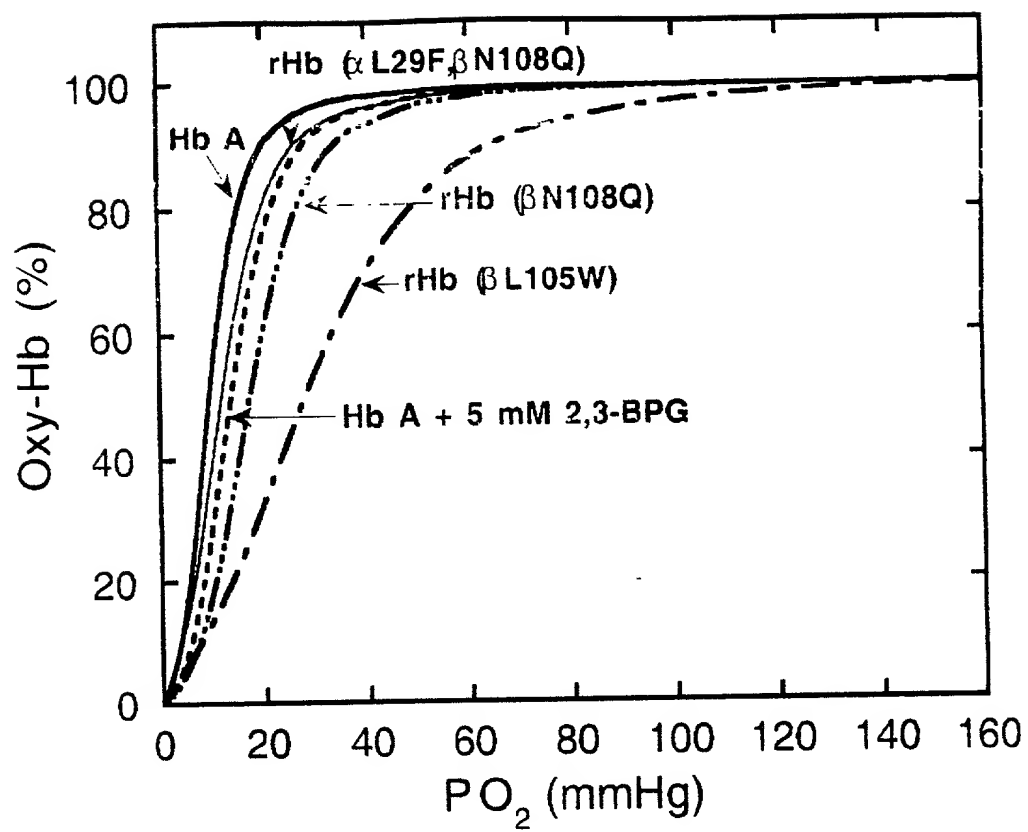


FIG. 4

106077-9993660

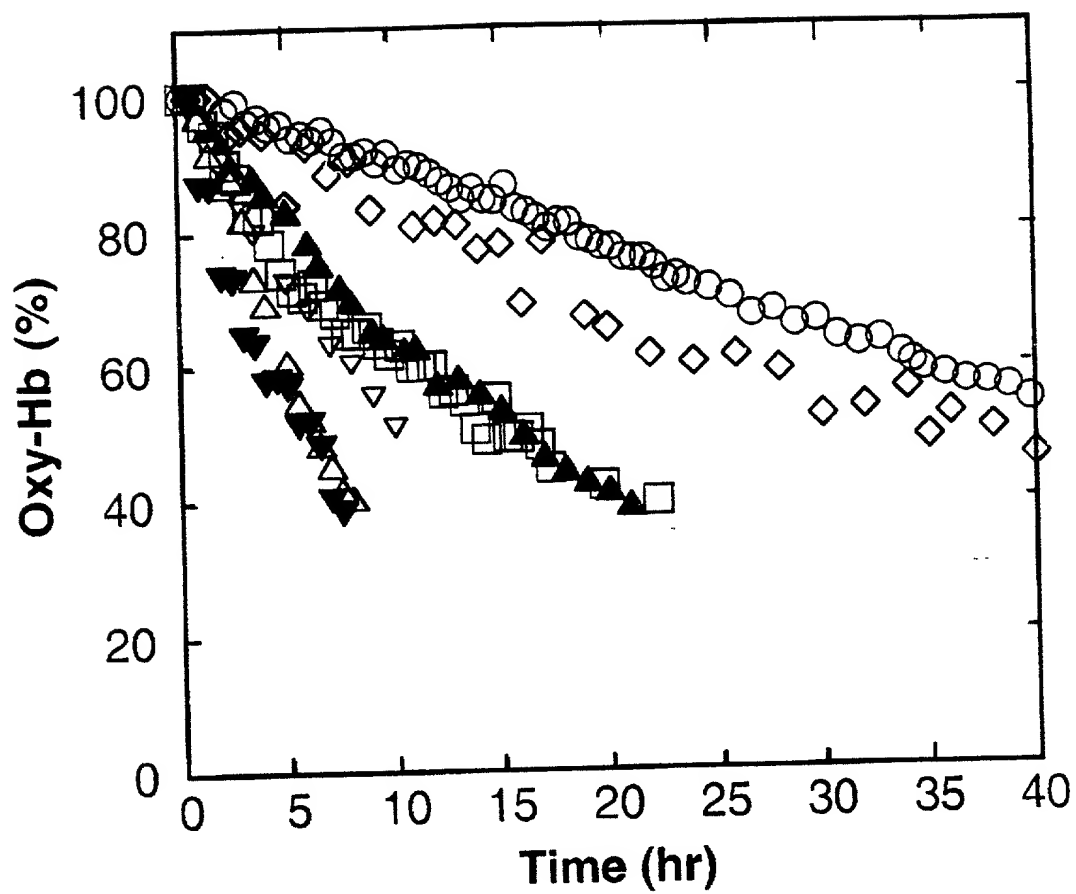


FIG. 5

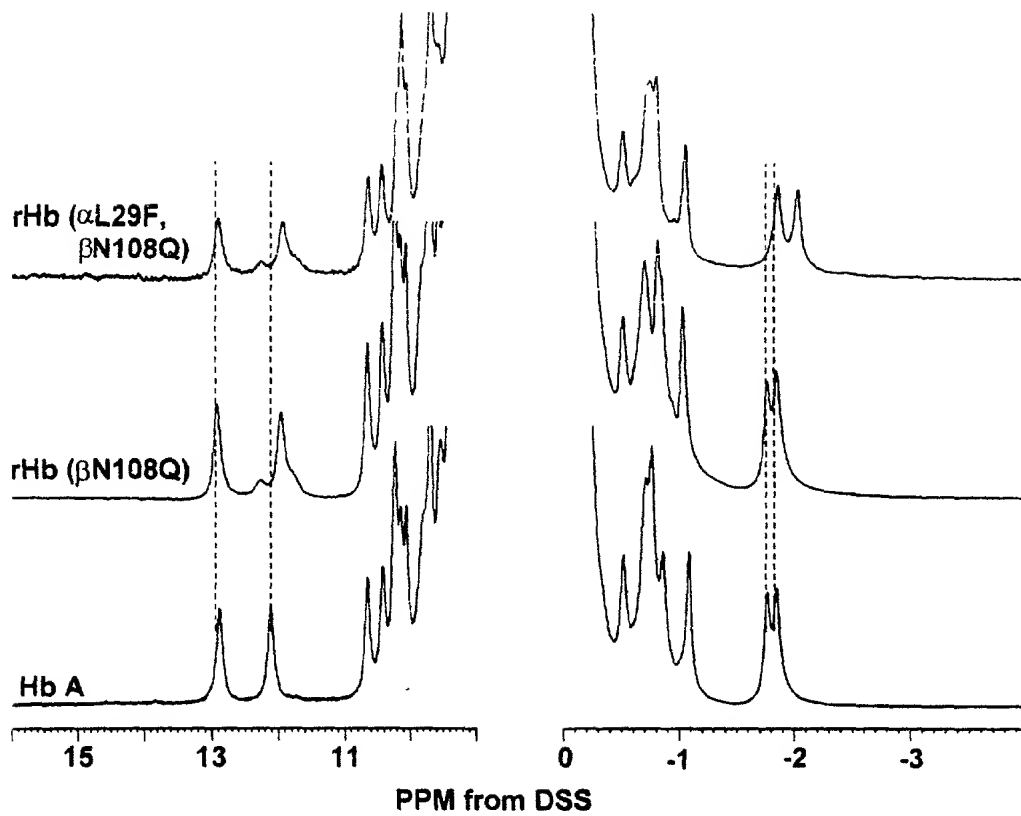


FIG. 6A

FIG. 6B

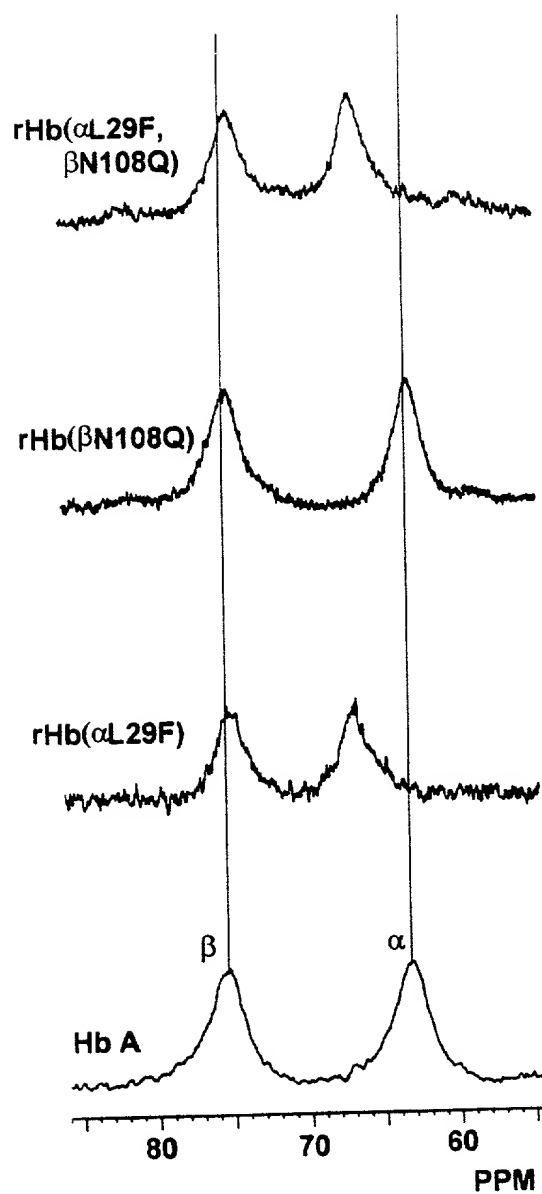


FIG. 7A

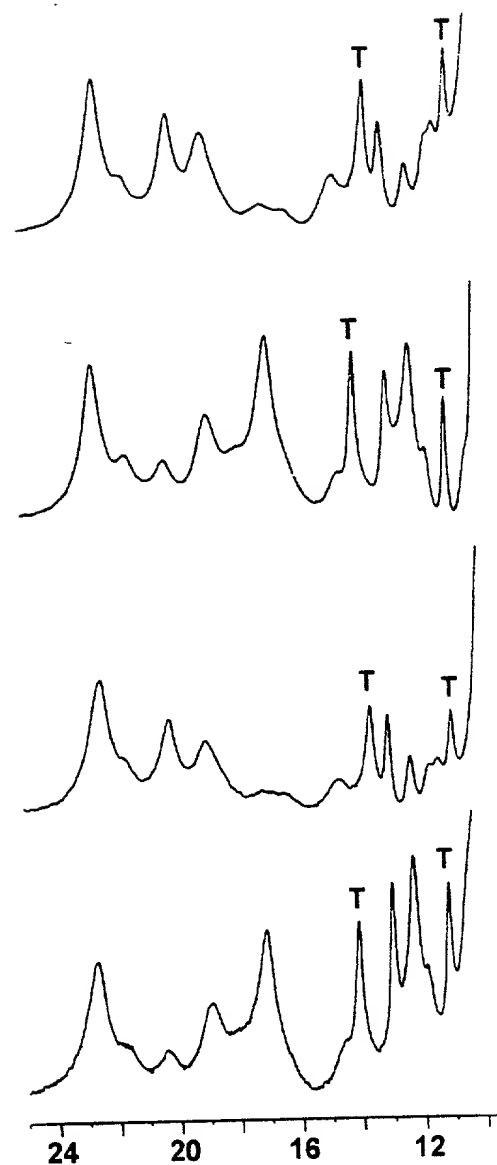


FIG. 7B

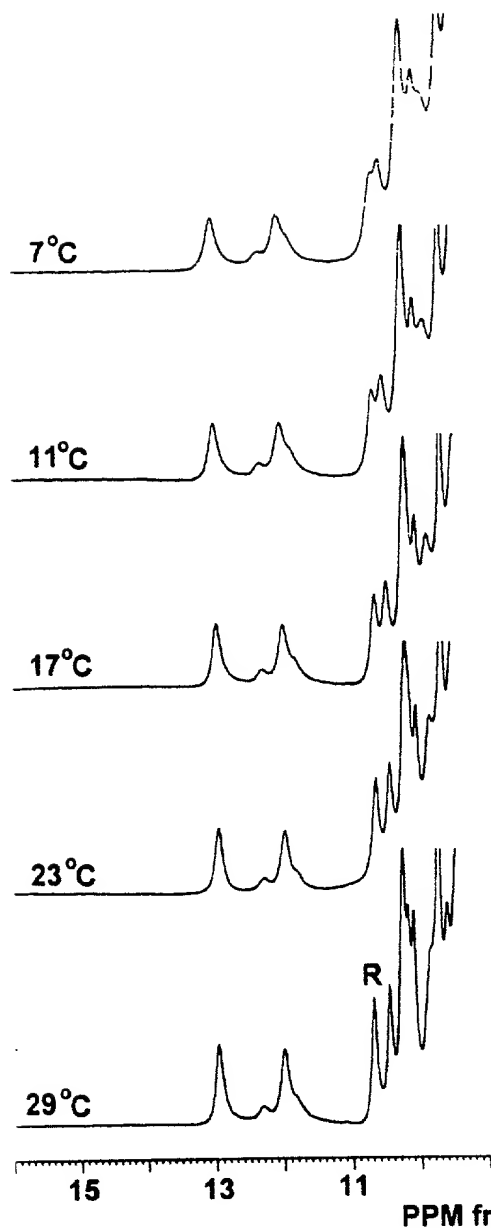


FIG. 8A

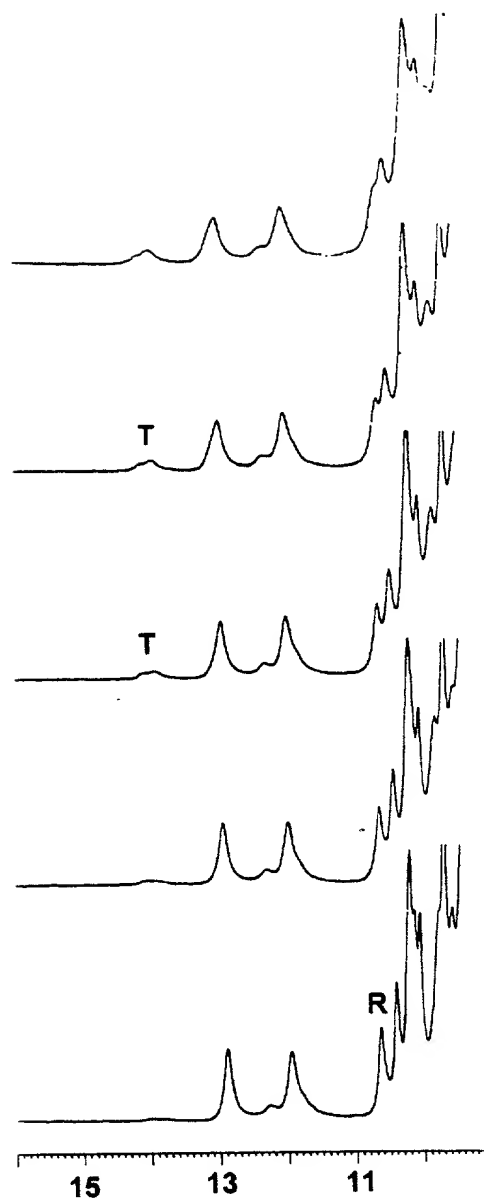


FIG. 8B

0393556-11001

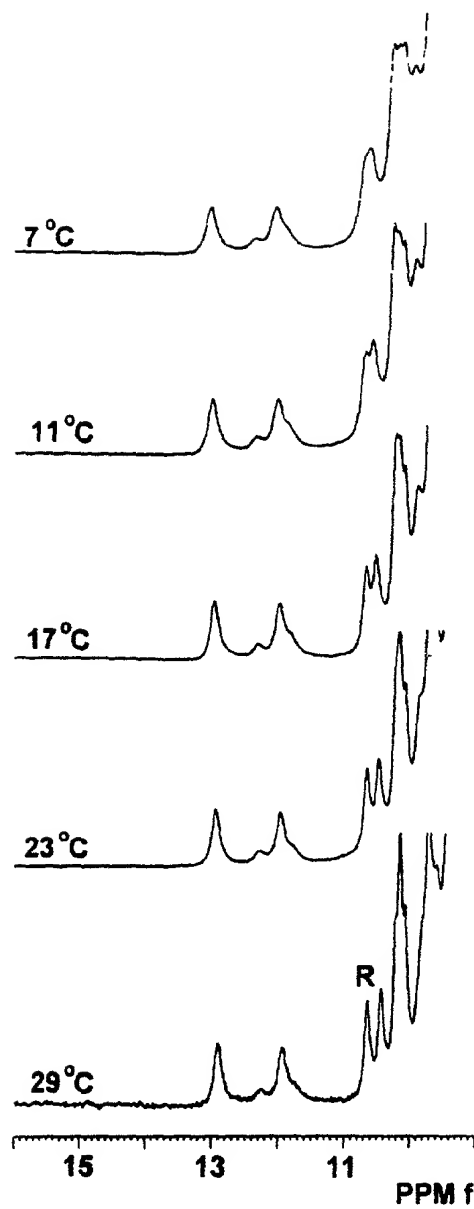


FIG. 9A

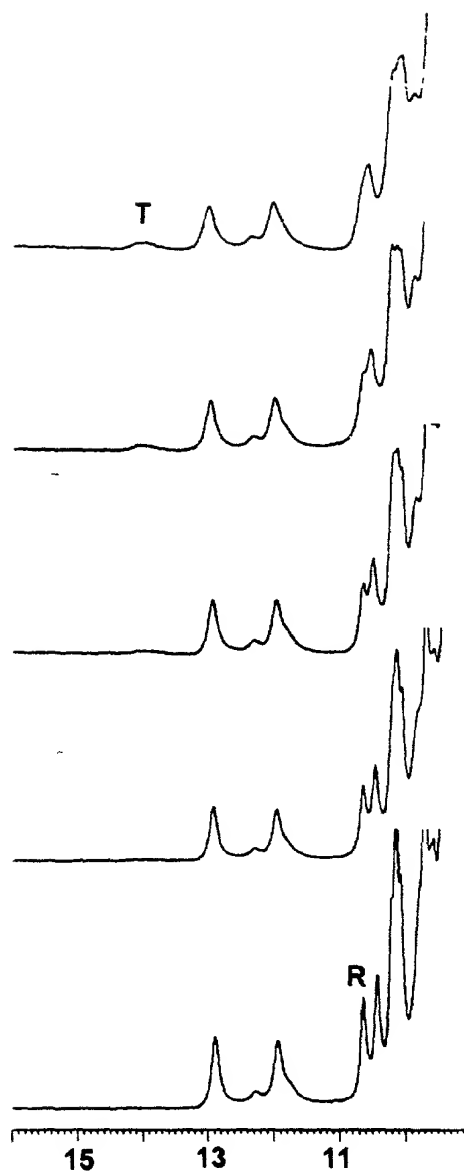


FIG. 9B

099666-11091
T060T-9998650

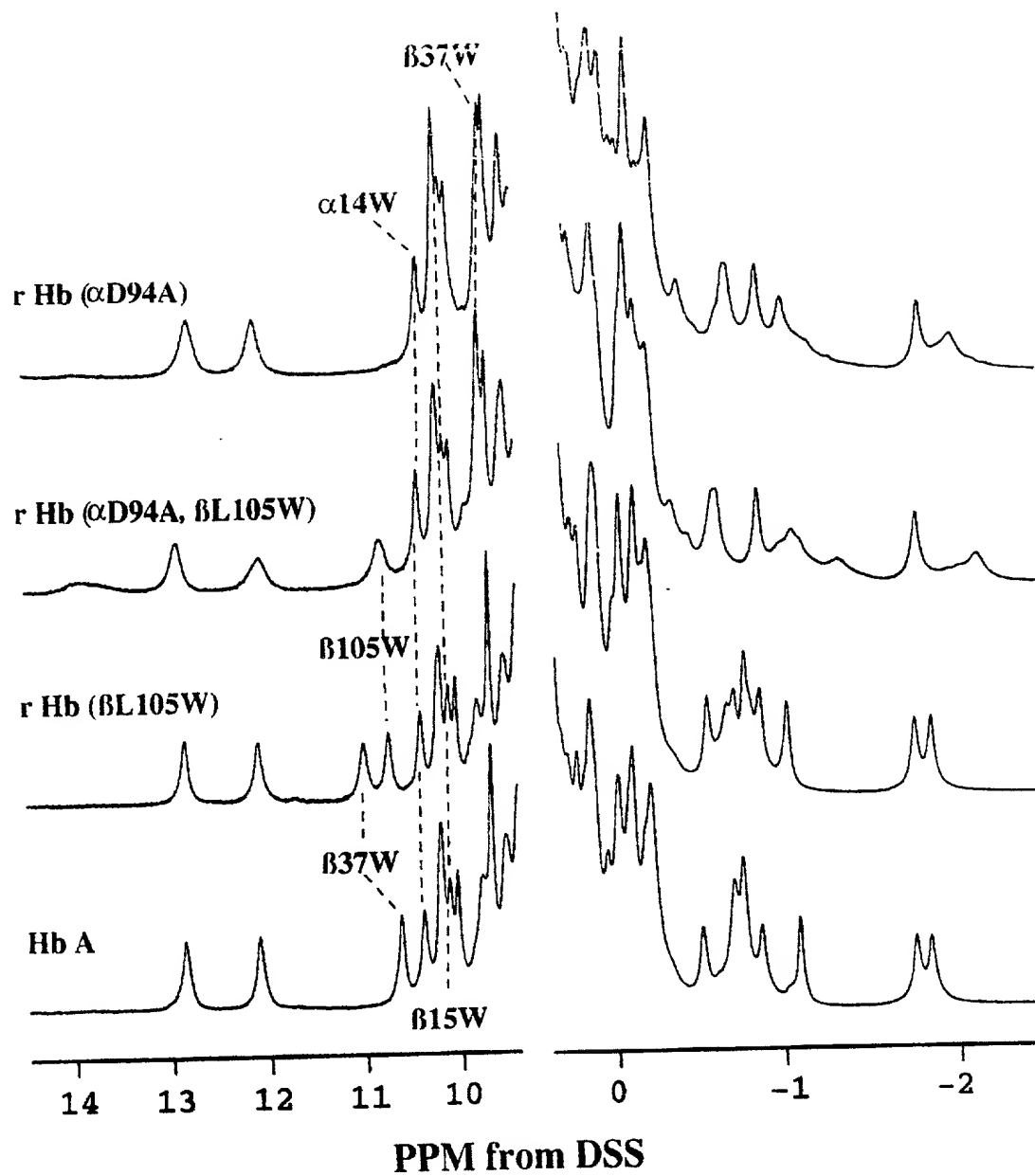


FIG. 10A

FIG. 10B

FIG. 11A

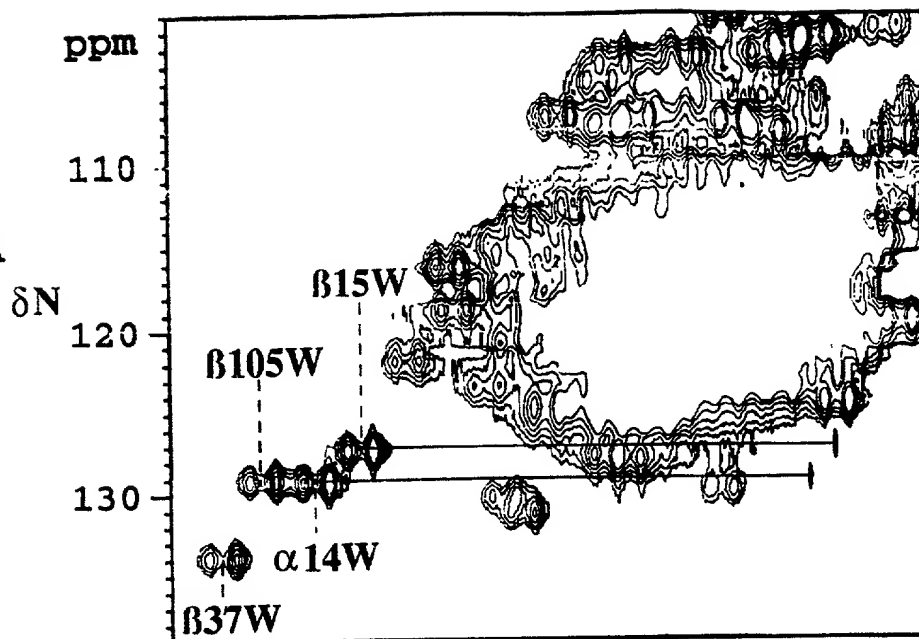


FIG. 11B

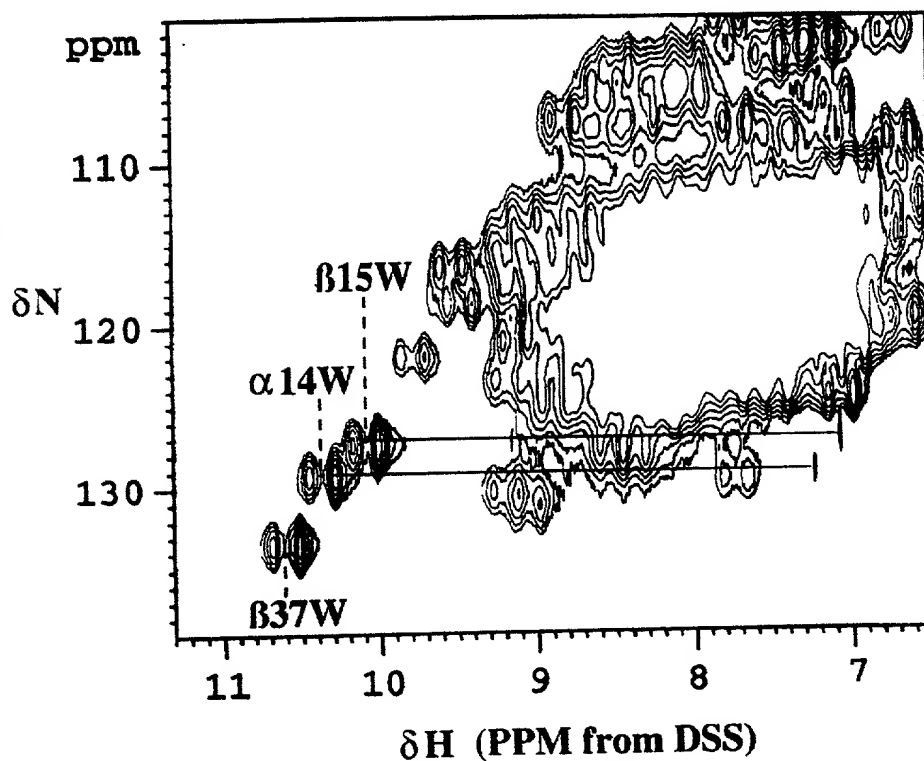


FIG. 12A

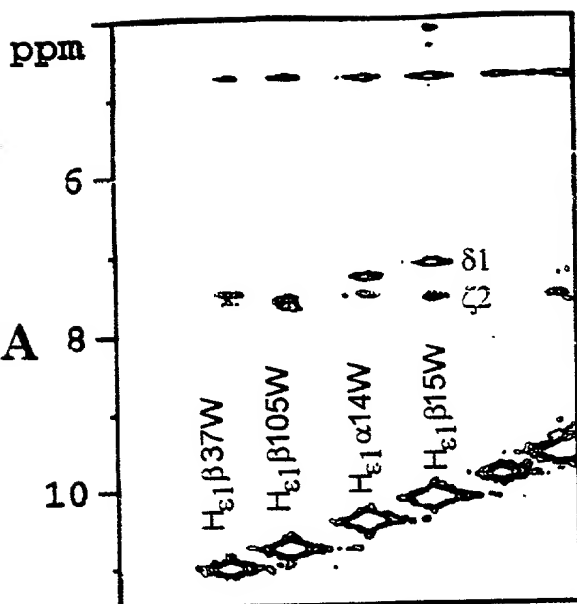


FIG. 12B

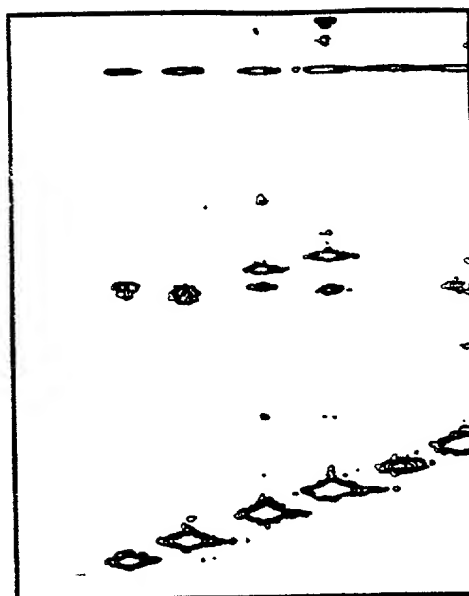


FIG. 12C

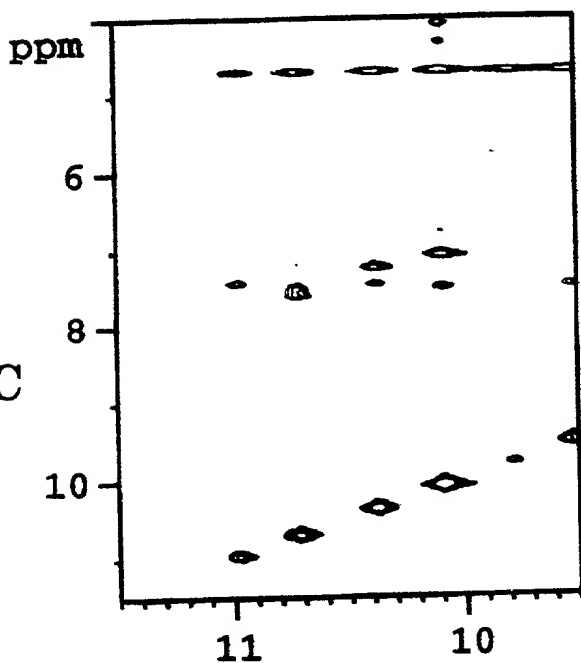
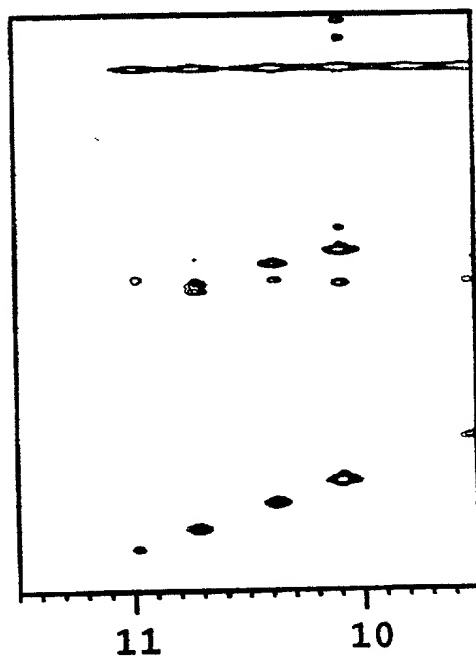


FIG. 12D



PPM from DSS

Figure 1 displays ^1H NMR spectra of recombinant hemoglobin (rHb) variants. The figure is organized into three columns and four rows. The left column shows the 60–90 ppm region, with peaks labeled β and α for Hb A. The middle column shows the 15–25 ppm region. The right column shows the 12–14 ppm region, with peaks labeled T (Tyrine), B105W (betaL105W), and B37W (beta37W). The rows represent different rHb variants: rHb (αD94A), rHb (αD94A , βL105W), rHb (βL105W), and Hb A. The x-axis for the left column is labeled in ppm (90, 80, 70, 60, 50). The x-axis for the middle column is labeled in ppm (25, 20, 15). The x-axis for the right column is labeled in ppm (14, 13, 12).

2D NMR spectrum showing correlations between δH (PPM from DSS) on the x-axis and δN (PPM) on the y-axis. The x-axis ranges from 13 to 7 ppm, and the y-axis ranges from 110 to 160 ppm. The spectrum displays a large contour plot for B15W in the upper right region. Two horizontal lines are drawn across the spectrum at $\delta N \approx 134$ ppm and $\delta N \approx 163$ ppm, indicating correlations for B105W and $\alpha 14W$, respectively. Labels B105W, B15W, B37W, and $\alpha 14W$ are present.

FIG. 14

FIG. 15A

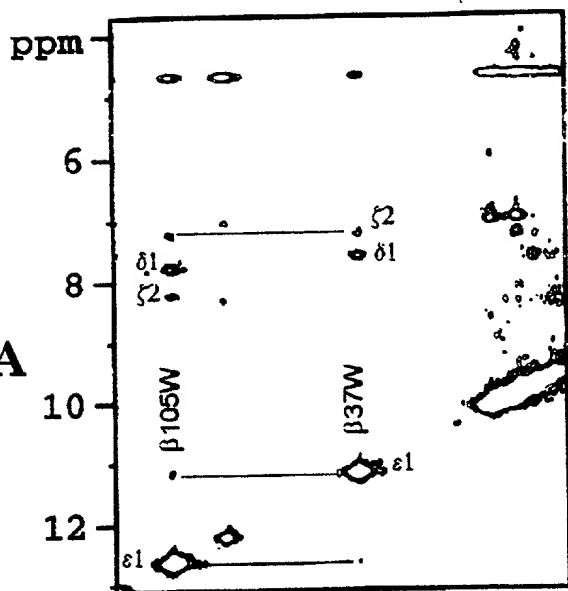


FIG. 15B

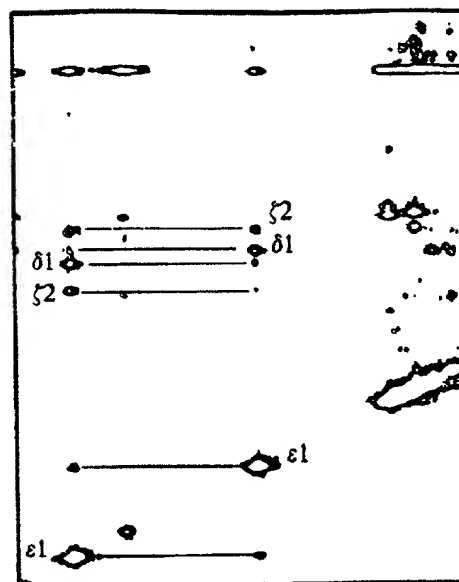


FIG. 15C

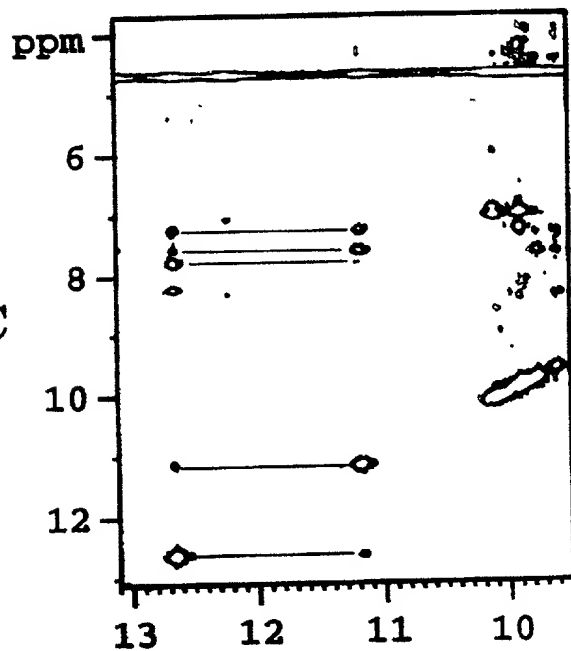
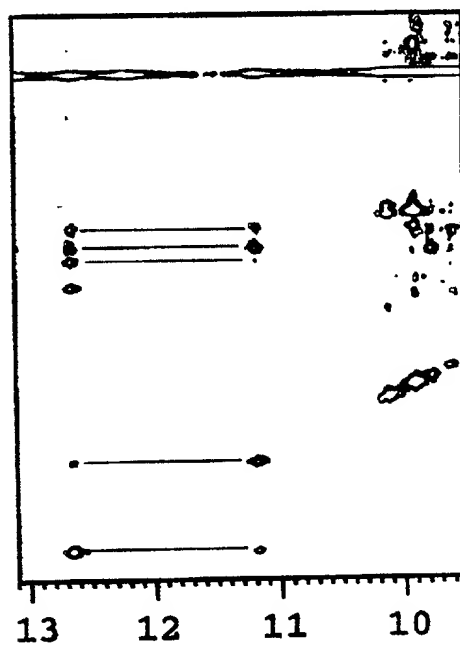


FIG. 15D



PPM from DSS

FIG. 16 A

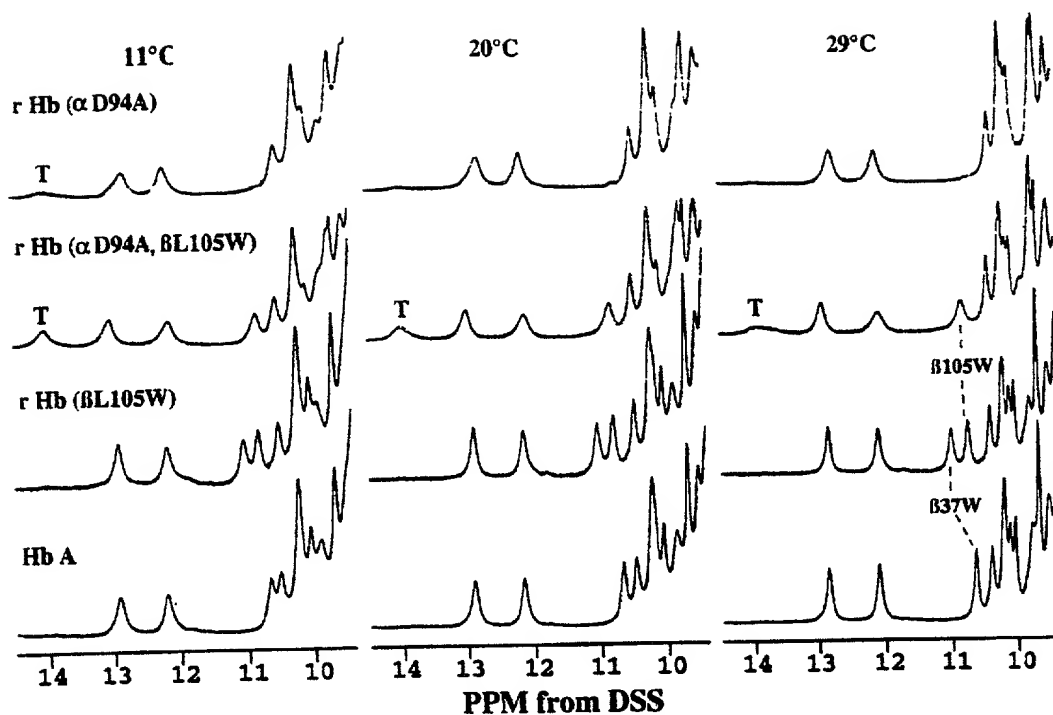


FIG. 16B

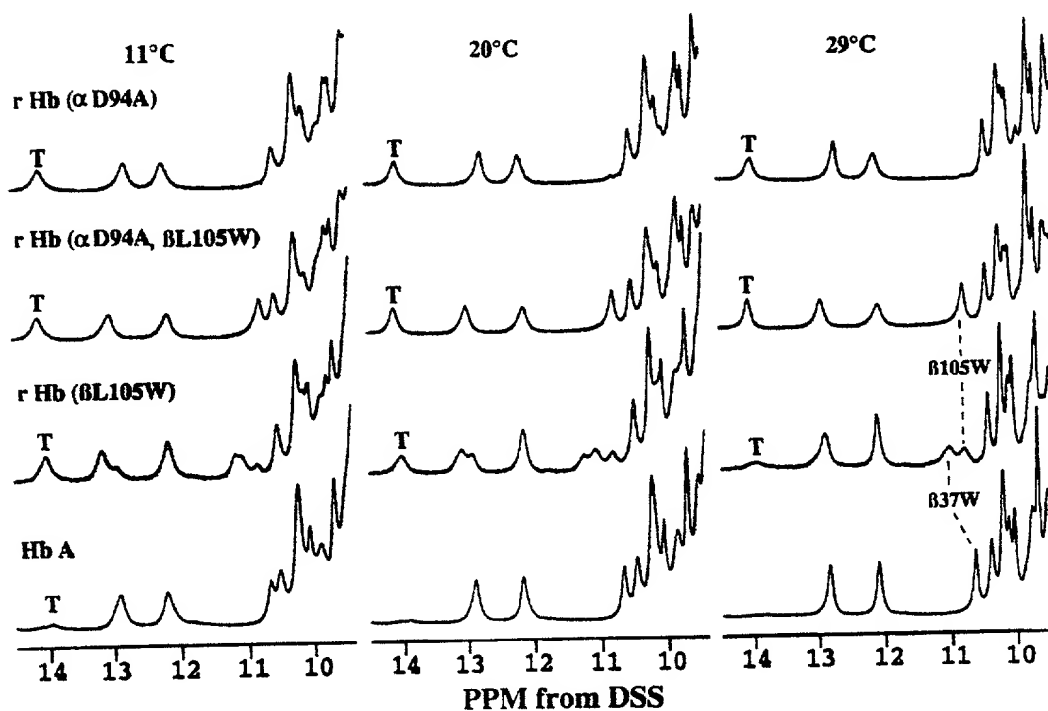


FIG. 17A

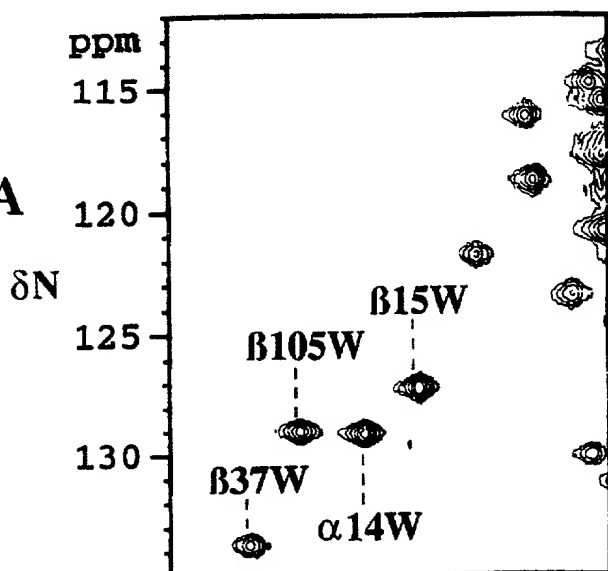


FIG. 17B

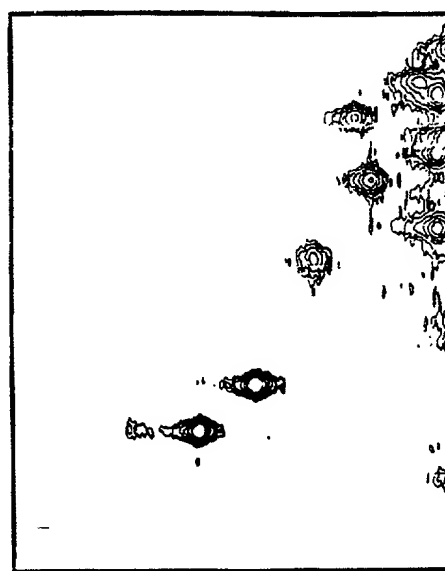


FIG. 17C

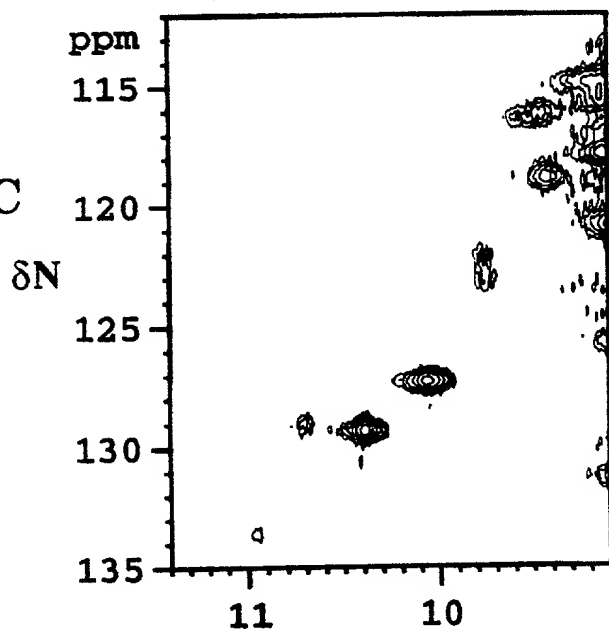
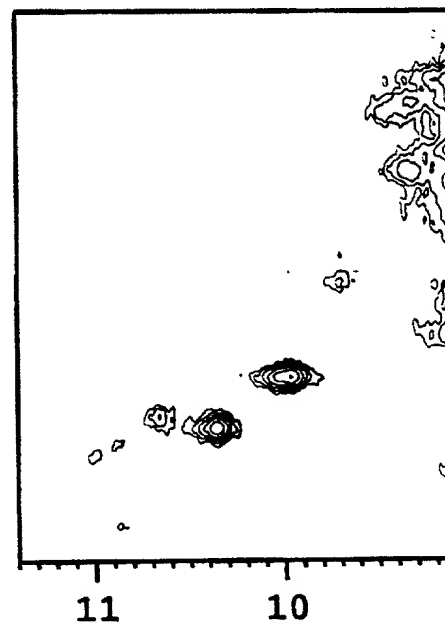


FIG 17D



δH (PPM from DSS)

FIG. 18A

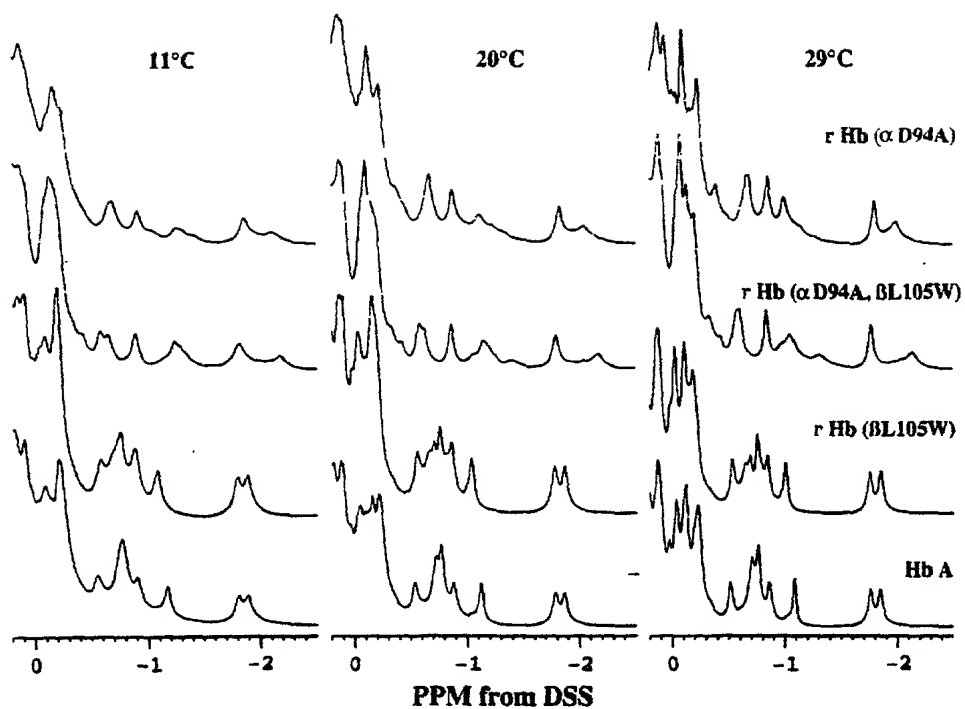


FIG. 18B

